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ADVANCED BI-DIRECTIONAL PREDICTIVE CODING OF VIDEO FRAMES
ABSTRACT

Techniques and tools for coding/decoding of video images, and in particular, B-

5   frames, are described. In one aspect, a video encoder/decoder determines a fraction

for a current image in a sequence. The fraction represents an estimated temporal

distance position for the current image relative to an interval between a reference

images for the current image. The video encoder/decoder processes the fraction along

with a motion vector for a first reference image, resulting in a representation of motion

10   (e.g., constant or variable velocity motion) in the current image. Other aspects are also

described, including intra B-frames, forward and backward buffers for motion vector

prediction, bitplane encoding of direct mode prediction information, multiple motion

vector resolutions/interpolation filters for B-frames, proactive dropping of B-frames, and

signaling of dropped predicted frames.

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